

Wan-Chi Tsai (蔡婉琪)

wanchi@kmu.edu.tw



ACADEMIC EDUCATIONS AND CAREER

2024~present	Secretary, Director of Division of Alumni & Public Affairs
2021~present	Excutive Director of Taiwan Genomics Medicine and Biomarker Society (TGMBS) (台灣基因醫學暨生物標記學會)
2019~2021	Director of Taiwan Genomics Medicine and Biomarker Society (TGMBS) (台灣基因醫學暨生物標記學會)
2019~2021	Associate Vice President for Globla Affairs/ Director for Division of Planning & Development, Office of Global Affairs, Kaohsiung Medical University, Kaohsiung, Taiwan
2018~2019	Director for Division of Academic Collaboration, Office of Global Affairs, Kaohsiung Medical University, Kaohsiung, Taiwan
2017~present	Associate Professor, Department of Medical Laboratory Science and Biotechnology, Kaohsiung Medical University, Kaohsiung, Taiwan
2016~2018	Director for Research and International Affairs, College of Health Sciences, Kaohsiung Medical University
2014~2015	Director, Division of Student Exchange, Office of Global Affairs, Kaohsiung Medical University
2011~2017	Assistant Professor, Department of Medical Laboratory Science and Biotechnology, Kaohsiung Medical University, Kaohsiung, Taiwan
2008~2011	Assistant Professor, School of Medical Laboratory and

	Biotechnology, Chung Shan Medical University, Taichung, Taiwan
2007~2008	Postdoctoral Fellow, College of Pharmacy, Ohio State University, Columbus, OH, U.S.A.
2000~2006	Graduate Student, Institute of Basic Medical Sciences, Medical College, National Cheng Kung University, Tainan, Taiwan.
1996~2000	Undergraduate Student, Department of Biomedical Laboratory Science, Kaohsiung Medical University, Kaohsiung, Taiwan.

PROFESSIONAL SPECIALTY

- Cancer medicine
- Tumor biology
- Signal transduction

RESEARCH INTERESTS

- The therapeutic potential and mechanism of new bioactive natural products from plants and marine invertebrates against pancreatic and oral cancers
- The mechanism of non-alcoholic fatty pancreas disease-induced acinar-to-ductal metaplasia in pancreas

TEACHING COURSES

Molecular diagnostics, Molecular biology, Cancer medicine, Signal transduction, Angiogenesis

AWARDS

1. Excellent Teaching Award, Kaohsiung Medical University, 2024
2. Distinguished Teaching Award, Kaohsiung Medical University, 2020
3. Excellent Teaching Award, Kaohsiung Medical University, 2019
4. Distinguished Teaching Award, Kaohsiung Medical University, 2014
5. Excellent Teaching Award, Kaohsiung Medical University, 2013
6. Young Investigator Award, International Symposium on Pancreas Cancer 2012,

Kyoto, Japan

7. Gold Medal, 2012 Taipei International Invention and Technology Trade Show, "Bioadsorbent and its Producing Method".
8. Gold Medal, The 63rd International Exhibition of Inventions in Nuremberg, Germany in 2011(iENA, Nürnberg), "Bioadsorbent and its Producing Method".

PUBLICATIONS

1. Pei-Hsuan Chen[†], Che-Hsin Lee[†], Chih-Chuang Liaw, Rei-Ting Liang, Mo Aqib Raza Khan, Jen-Ning Tsai, Shin-Yi Huang, Wangta Liu, **Wan-Chi Tsai***. Metachromin C, a marine-derived natural compound, shows potential in antitumor activity. *International Journal of Medical Sciences*. 2024, 21(13): 2578-2594.
2. Muhammad Naeem, Muhammad Omer Iqbal, Humaira Khan, Muhammad Masood Ahmed, Muhammad Farooq, Muhammad Moeen Aadil, Mohamad Ikhwan Jamaludin, Abu Hazafa* and **Wan-Chi Tsai***. A Review of Twenty Years of Research on the Regulation of Signaling Pathways by Natural Products in Breast Cancer. *Molecules*. 2022, 27(11), 3412.
3. Yueh-Hua Chung, Yuan-Tso Cheng, Ying-Hsien Kao, **Wan-Chi Tsai**, Gong-Kai Huang, Yen-Ta Chen, Yuan-Chi Shen, Ming-Hong Tai & Po-Hui Chiang. MiR-26a-5p as a useful therapeutic target for upper tract urothelial carcinoma by regulating WNT5A/ β -catenin signaling. *Sci Rep*. 2022 Apr 28;12(1):6955.
4. Yu-Fen Tsai, Yen-Yun Wang, **Wan-Chi Tsai**, Chang-Wei Su, Ching-Wei Hsu, Shyng-Shiou F. Yuan*. Decreased circulating melatonin with loss of age-related biphasic change in patients with oral squamous cell carcinoma. *J. Pers. Med*. 2021, 11(1357):1-9.
5. **Wan-Chi Tsai***, Wen-Hung Wang, Bo-Cian Huang, Chiung-Yao Huang, Jyh-Horng Sheu*. 5-*epi*-Sinuleptolide from Soft Corals of the Genus *Sinularia* Exerts Cytotoxic Effects on Pancreatic Cancer Cell Lines via the Inhibition of JAK2/STAT3, AKT, and ERK Activity. *Molecules*. 2021, 26(22):6932-6948.
6. Tzu-Chuan Ho[†], Yung-Hsuan Wang[†], Yi-Ling Chen, **Wan-Chi Tsai**, Che-Hsin Lee, Kuo-Pin Chuang, Yi-Ming Arthur Chen, Cheng-Hui Yuan, Sheng-Yow Ho, Ming-Hui Yang*, and Yu-Chang Tyan*. Chloroquine and Hydroxychloroquine:

- Efficacy in the Treatment of the COVID-19. *Pathogens*. 2021 Feb 17;10(2):217.
7. Pei-Yu Wu, Kuei-Min Chen*, **Wan-Chi Tsai**. The Mediterranean dietary pattern and inflammation in older adults: A systematic review and meta-analysis. *Adv Nutr*. 2021 Mar 31;12(2):363-373.
 8. Wen-Chi Yang*, Sheng-Fung Lin, Shu-Chen Wang, **Wan-Chi Tsai**, Chun-Chieh Wu and Shih-Chi Wu. The Effects of Human BDH2 on the Cell Cycle, Differentiation, and Apoptosis and Associations with Leukemia Transformation in Myelodysplastic Syndrome. *Int J Mol Sci*. 2020 Apr 25;21(9):3033.
 9. Ming-Hui Yang, Marcelo Chen, Hsiao-Hsuan Mo, **Wan-Chi Tsai**, Yu-Chi Chang, Chin-Chuan Chang, Ko-Chin Chen, Hsin-Yi Wu, Cheng-Hui Yuan, Che-Hsin Lee, Yi-Ming Arthur Chen* and Yu-Chang Tyan*. Utilizing Experimental Mouse Model to Identify Effectors of Hepatocellular Carcinoma Induced by HBx Antigen. *Cancers (Basel)*. 2020 Feb 10;12(2).
 10. Shin-Chen Pan, Che-Yu Li, Chia-Yi Kuo, Yi-Zih Kuo, Wei-Yu Fang, Yu-Hsuan Huang, Tzu-Chin Hsieh, Hung-Ying Kao, Yuan Kuo, Ya-Rong Kang, **Wan-Chi Tsai**, Sen-Tien Tsai* & Li-Wha Wu*. The p53-S100A2 Positive Feedback Loop Negatively Regulates Epithelialization in Cutaneous Wound Healing. *Sci Rep*. 2018 Apr 3;8(1):5458.
 11. **Wan-Chi Tsai**, Hui-Fang Tsai, Yinuan Wong, Jui-Yen Hong, Shwu-Jen Chang, Ming-Wei Lee*. Preparation and characterization of Gellan gum/Glucosamine/Clioquinol film as oral cancer treatment patch. *Mater Sci Eng C Mater Biol Appl*. 2018 Jan 1;82:317-322. (SCI)
 12. Ping-Jen Chen, Charles Lung-Cheng Huang, Shih-Feng Weng, Ming-Ping Wu, Chung-Han Ho, Jhi-Joung Wang, **Wan-Chi Tsai**, Ya-Wen Hsu. Relapse insomnia increases greater risk of anxiety and depression: evidence from a population-based 4-year cohort study. *Sleep Med*. 2017 Oct;38:122-129. (SCI)
 13. Yi-Jin Chen, Wen-Hung Wang, Wan-Yu Wu, Chia-Chi Hsu, Ling-Rung Wei, Sheng-Fan Wang, Ya-Wen Hsu, Chih-Chuang Liaw, **Wan-Chi Tsai***. Novel histone deacetylase inhibitor AR-42 exhibits antitumor activity in pancreatic cancer cells by affecting multiple biochemical pathways. *PLoS One*. 2017 Aug

22;12(8):e0183368.

14. **Wan-Chi Tsai**, Li-Yuan Bai, Yi-Jin Chen, Po-Chen Chu, Ya-Wen Hsu, Aaron M. Sargeant, and Jing-Ru Weng*. OSU-A9 inhibits pancreatic cancer cells by modulating p38-JAK-STAT3 signaling. *Oncotarget*. 2017 Apr 25;8(17):29233-29246. (SCI)
15. Nai-Ming Chen[†], Albrecht Neesse[†], Moritz Lino Dyck, Alexander O. Koenig, Clara Lubeseder-Martellato, Thore Winter, Hanibal Bohnenberger, Julia Kitz, Jochen Gaedcke, Marian Grade, Jin-San Zhang, **Wan-Chi Tsai**, Thomas Stief, Jens Siveke, Philipp Ströbel, Steven A. Johnsen, Volker Ellenrieder and Elisabeth Hessmann*. Context-dependent NFATc1 promoter editing in pancreatic plasticity. *Gastroenterology*. 2017 May;152(6):1507-1520.e15. (SCI)
16. Wen-Hung Wang[†], Yu-Hsuan Kuo[†], Ling-Ya Chu, Chia-Ying Lee, Yu-Chang Tyan, Zong-Shiow Chen and **Wan-Chi Tsai***. Anti-cancer Effects of Salvia miltiorrhiza Alcohol Extract on Oral Squamous Carcinoma Cells. *Evidence-Based Complementary and Alternative Medicine*. 2017;2017:5364010. (SCI)
17. Shih-Cheng Chen, Ming-Hui Yang, Tze-Wen Chung, Ting-Syuan Jhuang, Jean-Dean Yang, Ko-Chin Chen, Wan-Jou Chen, Ying-Fong Huang, Shiang-Bin Jong, **Wan-Chi Tsai**, Po-Chiao Lin, and Yu-Chang Tyan*. Preparation and Characterization of Hyaluronic Acid-Polycaprolactone Copolymer Micelles for the Drug Delivery of Radioactive Iodine-131 Labeled Lipiodol. *BioMed Research International*. 2017;2017:4051763. (SCI)
18. Sheng-Fan Wang*, Sung-Pin Tseng, El-Wui Loh, Wen-Hung Wang, Ming-Chun Li, Kuan-Hsuan Chen, **Wan-Chi Tsai**, Yuan-Ming Lee, Huan-Yuan Chen, Fu-Tong Liu, Yi-Ming Arthur Chen*, Jason C. Huang*. Generation and characterization of new monoclonal antibodies against swine origin 2009 influenza A (H1N1) virus and evaluation of their prophylactic and therapeutic efficacy in a mouse model. *Developmental and Comparative Immunology*. 2017 Feb;67:8-17. (SCI)
19. **Wan-Chi Tsai**, Mark Daniel de Luna, Hanna Lee Bermillo-Arriegas, Cybelle Futralan, James Colades and Meng-Wei Wan. Competitive fixed-bed adsorption of Pb(II), Cu(II) and Ni(II) from aqueous solution using chitosan

coated bentonite. *International Journal of Polymer Science*. Volume 2016 (2016), Article ID 1608939, 11 pages (SCI)

20. Ya-Ju Hsieh, Sung-Pin Tseng, Yu-Hsuan Kuo, Tain-Lu Cheng, Chiao-Yu Chiang, Yew-Min Tzeng*, **Wan-Chi Tsai***. Ovatodiolide of *Anisomeles indica*, exerts the anti-cancer potential on pancreatic cancer cell lines through STAT3 and NF- κ B regulation. *Evidence-based Complementary and Alternative Medicine*. 2016;2016:8680372. (SCI)
21. **Wan-Chi Tsai**, Sonia Ibarra-Buscano, Chi-Chuan Kan, Cybelle Morales Futralan, Maria Lourdes P. Dalida, Meng-Wei Wan*. Removal of copper, nickel, lead, and zinc using chitosan-coated montmorillonite beads in single- and multi-metal system. *Desalination and Water Treatment*. 2016;57(61): 9799-9812. (SCI)
22. Sung-Pin Tseng, **Wan-Chi Tsai**, Chih-Yuan Liang, Yin-Shiou Lin, Jun-Wei Huang, Chung-Yu Chang, Yu-Chang Tyan, and Po-Liang Lu*. The Contribution of Antibiotic Resistance Mechanisms in Clinical *Burkholderia cepacia* Complex Isolates: An Emphasis on Efflux Pump Activity. *PLoS One*. 2014 Aug 25;9(8):e104986. (SCI)
23. Wen-Hung Wang, Yu-Chang Tyan, Zong-Shiow Chen, Ching-Gong Lin, Ming-Hui Yang, Shyng-Shiou Yuan and **Wan-Chi Tsai***. Evaluation of the antioxidant activity and anti-proliferative effect of the jaboticaba (*Myrciaria cauliflora*) seed extracts in oral carcinoma cells. *BioMed Research International* 2014;2014:185946. (SCI)
24. Ming-Hui Yang, Shyng-Shiou Yuan, Tze-Wen Chung, Shiang-Bin Jong, Chi-Yu Lu, **Wan-Chi Tsai**, Wen-Cheng Chen, Po-Chiao Lin, Pei-Wen Chiang, and Yu-Chang Tyan*. Characterization of Silk Fibroin Modified Surface: A Proteomic View of Cellular Response Proteins Induced by Biomaterials. *BioMed Research International*. 2014;2014:209469. (SCI)
25. Ming-Hui Yang, Hung Su, Yi-Ling Chen, Chi-Yu Lu, **Wan-Chi Tsai**, Yu-Chang Tyan*, Yu-Chun Liu, Ching-Wen Kuo, Yu-Ching Hsu. Utilized mass spectrometry-based protein profiling system to identify potential biomarkers of hepatocellular carcinoma. *Biomarkers and Genomic Medicine* 2013 5(3), 96–99

26. Ming-Hui Yang, Yi-Ling Chen, Chi-Yu Lu, Wan-Chi Tsai, Yu-Chang Tyan*, Yu-Chun Liu, Ching-Wen Kuo, Yu-Ching Hsu. Is NAP an additional neuroprotector in Alzheimer's disease? *Biomarkers and Genomic Medicine* 2013 5(3), 103-106
27. Yi-Shan Lu, Ming-Hui Yang, Chi-Yu Lu, Wan-Chi Tsai, Yu-Chang Tyan, Yu-Ching Hsu, Ching-Wen Kuo, Yu-Chun Liu. The proteomic study of the Ultraviolet-C irradiation effect for *Vigna radiata*. *J. Agri. & Fore.* 2013. 62(1): 65-78
28. Wen-Chi Yang, **Wan-Chi Tsai**, Pai-Mei Lin, Ming-Yu Yang, Yi-Chang Liu, Chao-Sung Chang, Wen-Hui Yu, Sheng-Fung Lin*. Human BDH2, an anti-apoptosis factor, is a novel poor prognostic factor for de novo cytogenetically normal acute myeloid leukemia. *Journal of Biomedical Science.* 2013 Aug 14;20(1):58. (SCI)
29. Ming-Hui Yang, Hsien-Yi Wang, Chi Yu Lu, **Wan-Chi Tsai**, Po-Chiao Lin, Shih-Bin Su and Yu-Chang Tyan*. Proteomic profiling for peritoneal dialysate: Differential protein expression in diabetes mellitus. *BioMed Research International.* 2013;2013:642964. (SCI)
30. Chih-Yu Peng, Pin-Chung Fong, Cheng-Chia Yu, **Wan-Chi Tsai**, Yew-Ming Tzeng, Wen-Wei Chang*. Methyl antcinatate A suppresses the population of cancer stem-like cells in MCF7 human breast cancer cell line. *Molecules.* 2013 Feb 26;18(3):2539-48. (SCI)
31. Kuo-Jung Hsien, Cybelle M. Futralan, **Wan-Chi Tsai**, Chi-Chuan Kan, Chun-Shuo Kung, Yun-Hwei Shen, Meng-Wei Wan*. Adsorption characteristics of copper(II) onto non-crosslinked and cross-linked chitosan immobilized on sand. 2013, *Desalination and Water Treatment.* 51(28-30):5574-82. (SCI)
32. Yu-Chang Tyan*, Ming-Hui Yang, Tze-Wen Chung, Chi-Yu Lu, **Wan-Chi Tsai**, Shiang-Bin Jong. Assessing human urinary proteome using a mass spectrometry-based profiling system combined with magnetic nanoparticles. *Clinica Chimica Acta.* 2013 May;420:54-61. (SCI)
33. Yi-Pang Lee[†], **Wan-Chi Tsai[†]**, Chih-Jan Ko[†], Yerra Koteswara Rao, Chiung-Ru

- Yang, Dar-Ren Chen, Ming-Hui Yang, Chi-Chiang Yang* and Yew-Min Tzeng*. Anticancer effects of eleven triterpenoids derived from *Antrodia camphorata*. *Anticancer Research*. 2012 Jul;32(7):2727-34. (SCI)
34. Yen-Chun Lin, Wen-Hung Wang, **Wan-Chi Tsai**, Chih-Cheng Chen, Wen-Cheng Chen and Kam-Fai Lee*. Predicting the Early Invasiveness of Nasopharyngeal Mucosal Neoplasia After Radiotherapy by Narrow-Band Imaging: A Pilot Study. *Head Neck*. 2013 Jan;35(1):46-51. (SCI)
35. Yen-Chun Lin, Wen-Hung Wang*, Kam-Fai Lee, **Wan-Chi Tsai**, Hsu-Huei Weng. Value of Narrow-Band Imaging Endoscopy in Early Mucosal Head and Neck Cancer. *Head Neck*. 2012 Nov;34(11):1574-9. (SCI)
36. Grisdanurak, N, Akewaranugulsiri S, Futralan C, **Tsai WC**, Kan CC, Hsu CW, Wan MW*. The Study of Copper Adsorption from Aqueous Solution using Crosslinked Chitosan Immobilized on Bentonite. 2012, *Journal of applied polymer science* 125(S2): E132–42 (SCI)
37. **Tsai WC**, Kan CC, Futralan C, Dalida MP, Wan MW*. The Multi-Metals Adsorption of Single and Binary System using Chitosan Coated Bentonite Beads. 2011, *Journal of Science and Technology* 4(45):144-8.
38. Maria Lourdes P. Dalidaa, Ana Francia V. Marianoa, Cybelle M. Futralana, Chi-Chuan Kan, **Wan-Chi Tsai*** and Meng-Wei Wan*. Adsorptive removal of Cu(II) from aqueous solutions using non-crosslinked and crosslinked chitosan-coated bentonite beads. *Desalination*. 2011 July 15; 275(1–3):154-9. (SCI)
39. **Wan-Chi Tsai**[†], Yen-Chun Lin[†], Sen-Tien Tsai, Wen-Hao Shen, Tai-Ling Chao, Su-Lin Lee, Li-Wha Wu*. Lack of modulatory function of coding nucleotide polymorphism S100A2_185G>A in oral squamous cell carcinoma. *Oral Diseases*. 2011 Apr;17(3):283-90. (SCI)
40. **Wan-Chi Tsai**, Yerra Koteswara Rao, Shih-Shen Lin, Ming-Yung Chou, Yi-Ting Shen, Chih-Hao Wu, Madamanchi Geethangili, Chi-Chiang Yang*, Yew-Min Tzeng*. Methylantcinatate A induces tumor specific growth inhibition in oral cancer cells via Bax-mediated mitochondrial apoptotic pathway. *Bioorganic & Medicinal Chemistry Letters*. 2010 Oct 15;20(20):6145-8. (SCI)

41. Wei S, Chuang HC, **Tsai WC**, Yang HC, Ho SR, Paterson AJ, Kulp SK, and Chen CS*. Thiazolidinediones mimic glucose starvation in facilitating Sp1 degradation through the upregulation of β -TRCP. 2009, *Molecular Pharmacology* 76:47-57. (SCI)
42. **Tsai WC**, Tsai ST, Jin YT, Wu LW*. Cyclooxygenase-2 is involved in S100A2-mediated tumor suppression in squamous cell carcinoma. 2006, *Mol Cancer Res* 4:539-547. (SCI)
43. Tsai ST, Jin YT, **Tsai WC**, Wang ST, Lin YC, Chang MT, Wu LW*. S100A2, a potential marker for early recurrence in early-stage oral cancer. 2005, *Oral Oncol* 41:349-357. (SCI)
44. **Tsai WC**, Tsai ST, Ko JY, Jin YT, Li C, Huang W, Young KC, Lai MD, Liu HS, Wu LW*. The mRNA profile of genes in betel quid chewing oral cancer patients. 2004, *Oral Oncol* 40:418-26. (SCI)
45. Jih YJ, Lien WH, Tsai WC, Yang GW, Li C, Wu LW*. Distinct regulation of genes by bFGF and VEGF-A in endothelial cells. 2001, *Angiogenesis* 4:313-21. (SCI)

CONFERENCE PUBLICATIONS

1. Pei-Hsuan Chen, Rui-Ting Liang, Mo Aqib Raza Khan, Chih-Chuang Liaw, **Wan-Chi Tsai***. LCC604, A Sesquiterpenoid Quinone Isolated from Marine Sponge Exerts Cytostatic and Anti-Angiogenesis Activity *In Vitro* and *In Vivo*. The 37th Joint Annual Conference of Biomedical Science (JACBS). Taipei, Taiwan, 2023. (Poster)
2. Peng-Yu Chen, Pin-Cen Guo, **Wan-Chi Tsai***. Natural Product from Marine Sponge Showed The Anti-Metastasis Potential by Inhibiting Epithelial-Mesenchymal Transition. 2022 Multiomics and precision medicine joint conference (MOPM), Taipei, Taiwan, 2022. (Poster)
3. Pei-Hsuan Chen, **Wan-Chi Tsai***. LCC604, A Sesquiterpenoid Quinone Isolated from Marine Sponge Exerts Anti-Angiogenesis Activity *In Vivo* and *In Vitro*. 2022 Multiomics and precision medicine joint conference (MOPM), Taipei, Taiwan, 2022. (Poster)
4. Yu-Fang Chuang, Wan-Chi Tsai*. Autophagy is involved in AVK611 induced

- anti-tumor effects on pancreatic cancer. 2022 Multiomics and precision medicine joint conference (MOPM), Taipei, Taiwan, 2022. (Poster)
5. Tzu-Cheng Kuo, Keemany Pierre Hinkson, Sodio C. N. Hsu, **Wan-Chi Tsai***. Half-sandwich pyrazole Ru compound induces cell cycle inhibition and apoptosis in pancreatic cancer cells. 108 學年度高雄醫學大學醫學院年度學生壁報論文競賽, Kaohsiung, 20200430. (Poster)
 6. **Wan-Chi Tsai***, Yu-Hsuan Kuo, Hsun-Shuo Chang, and Jyh-Horng Sheu. The Anti-Cancer Potential of Small Compounds from TCM and Marine Natural Products in Pancreatic Cancer. 2017 BIT's 10th Annual World Cancer Congress. Spain, 2017. (Invited speaker)
 7. Ling-Rung Wei, **Wan-Chi Tsai***. Compound X from *Ardisia virens* inhibits tumorigenesis and metastatic potential in pancreatic cancer. 105 學年度「跨校研究學習成效競賽暨壁報成果展」 Kaohsiung, 2016. (Poster)
 8. Yu-Hsuan Kuo, Jyh-Horng Sheu, **Wan-Chi Tsai***. An evaluation of the anti-cancerous potential of 5-*epi*-sinuleptolide in pancreatic cancer. ESMO Asia 2016 Congress. Singapore, 2016. (Poster)
 9. **Wan-Chi Tsai**, Li-Yuan Bai, Jing-Ru Weng*. OSU-A9 inhibits pancreatic cancer cells by modulating p38-JAK-STAT3 signaling. BASCO 2016 - 2nd Singapore Society of Oncology ASM. Singapore, 2016. (Poster)
 10. Tzu-Ying Chung, **Wan-Chi Tsai***. The Antiproliferative Effects of *Ardisia virens* in Pancreatic Cancer Cells. 104 學年度「跨校研究學習成效競賽暨壁報成果展」 Kaohsiung, 2016. (Poster)
 11. Yi-Jin Chen, Wan-Yu Wu, **Wan-Chi Tsai***. Histone deacetylase inhibitor induces apoptosis through caspase dependent and independent via AIF in human pancreatic carcinoma. 104 學年度「跨校研究學習成效競賽暨壁報成果展」 Kaohsiung, 2016. (Poster)
 12. Yi-Jin Chen, Wan-Yu Wu, **Wan-Chi Tsai***. The anti-cancer mechanisms of histone deacetylase inhibitor in human pancreatic carcinoma. The 13th Annual Meeting of Japanese Society of Medical Oncology 2015. Sapporo, Japan, 2015. (Oral presentation)
 13. Yi-Jin Chen, Wan-Yu Wu, **Wan-Chi Tsai***. The multidisciplinary pathways of novel histone deacetylase inhibitor in human pancreatic carcinoma. The 30th Joint Annual Conference of Biomedical Science (JACBS). Taipei, Taiwan, 2015.

(Poster)

14. Bo-Cian Huang, Jyh-Horng Sheu, **Wan-Chi Tsai***. Evaluation of the anti-cancer potential of sinuleptolide in pancreatic cancer model. The 12th Annual Meeting of Japanese Society of Medical Oncology 2014. Fukuoka, Japan, 2014. (Poster)
15. Chiao-Yu Chiang , Yew-Min Tzeng, **Wan-Chi Tsai***. Evaluation of the potential as an anti-pancreatic cancer drug of ovatodiolide. The 12th Annual Meeting of Japanese Society of Medical Oncology 2014. Fukuoka, Japan, 2014. (Poster)
16. Li-Ting Tseng, Ping-Chang Lin, Yu-Chang Tyan, **Wan-Chi Tsai***. The Combined-treatment of Clioquinol and Copper Induces G2/M Arrest on HSC-3 Cells. The 29th Joint Annual Conference of Biomedical Sciences (JACBS). Taipei, Taiwan, 2014. (Poster)
17. Ya-Wen Hsu, **Wan-Chi Tsai**, Yi-Ju Tsai*. Sleep quality mediates the association between stress and physical quality of life in emerging adulthood. APHA 141st Annual Meeting and Exposition. Boston, MA. November 2-6, 2013. (Oral presentation)
18. Wan-Yu Wu, **Wan-Chi Tsai***. The Effect of Novel Histone Deacetylase Inhibitors in Human Pancreatic Carcinoma. The 28th Joint Annual Conference of Biomedical Sciences (JCSB). Taipei, Taiwan, 2013. (Poster)
19. Ping-Chang Lin, **Wan-Chi Tsai***. The Anti-Cancer Effects of Clioquinol on Human Oral Squamous Cell Carcinoma. The 28th Joint Annual Conference of Biomedical Sciences (JCSB). Taipei, Taiwan, 2013. (Poster)
20. **Wan-Chi Tsai***. The anti-cancer potential and possible mechanism of clioquinol in pancreatic cancer. International Symposium on Pancreas Cancer 2012. Kyoto, Japan, 2012. (Poster)
21. **Wan-Chi Tsai***, Ching Gong Lin, Li Ting Tzeng, Zong-Shiow Chen. The antioxidant and anti-proliferative activity of the myrciaria cauliflora extract. 21st Asia Pacific Cancer Conference. Kuala Lumpur, Malaysia, 2011. (Poster)
22. **Wan-Chi Tsai***, Ching Gong Lin, Li Ting Tzeng, Zong-Shiow Chen. The antioxidant and anti-proliferation effects of lotus plumule extracts on oral squamous cell carcinoma cell lines. 2011 International Conference of Inflammation, Cancer, and Metabolic Disorders. Miaoli, Taiwan, 2011. (Poster)
23. **Wan-Chi Tsai**, Chi-Chuan Kan, Ibarra-Buscano, S., Maria L. Dalida, Meng-Wei Wan*. Selectivity Sequence and Adsorption Mechanism of Multi-Metals in

- Aqueous Solution using Chitosan- Bentonite Composite Beads. International Conference on Challenges in Environmental Science & Engineering. Tainan, Taiwan, 2011. (Oral presentation)
24. **Wan-Chi Tsai**, Chi-Chuan Kan, Cybelle Futralan, Maria L. Dalida, Meng-Wei Wan*. The multi-metals adsorption of single and binary system using chitosan coated bentonite beads. International Forum on Green Technology and Management (IFGTM). Da Nang, Vietnam, 2011. (Oral presentation)
 25. Yen-Yu Liu, **Wan-Chi Tsai***. The Anti-cancer Potential of Clioquinol-derivatives in Pancreatic Cancer. The 26th Joint Annual Conference of Biomedical Sciences (JCSB). Taipei, Taiwan, 2011. (Poster)
 26. **Wan-Chi Tsai**, Yew-Min Tzeng* and Chi-Chiang Yang*. The anti-tumor effects of cytotoxic triterpenes from *Antrodia camphorata* in oral carcinoma cells. The 4th World Congress of International Federation of Head and Neck Oncologic Societies (IFHNOS). Seoul, Korea, 2010. (Poster)
 27. **Wan-Chi Tsai**, Shih-Shen Lin, Ming-Yung Chou, Madamanchi Geethangili, Yi-Ting Shen, Chih-Hao Wu, Yew-Min Tzeng* and Chi-Chiang Yang*. The Selective Apoptotic Cytotoxicity of Methylantcinat A from *Antrodia Camphorata* in Oral Cancer Cells. The 25th Joint Annual Conference of Biomedical Sciences (JCSB). Taipei, Taiwan, 2010. (Poster)
 28. **Wan-Chi Tsai**, Chen-Hsun Tsai, Jing-Ru Weng, Samuel K. Kulp and Ching-Shih Chen*. OSU-A9, an Indole-3-Carbinol derivative, is a new potential antitumor agent for advanced pancreatic cancer. The 100th American Association for Cancer Research (AACR). Denver, CO, U.S.A., 2009. (Poster)
 29. **Wan-Chi Tsai**, Wen-Hao Shen, Sen-Tien Tsai, Li-Wha Wu*. G182A polymorphism in S100A2 coding sequence: lack of association with the anti-tumor effect by S100A2 in oral cancer cells. The 24th Joint Annual Conference of Biomedical Sciences (JCSB). Taipei, Taiwan, 2009. (Poster)
 30. **Wan-Chi Tsai**, Sen-Tien Tsai, Yin-Tai Jin, Li-Wha Wu*. The tumor suppression role of S100A2 in human oral squamous carcinoma cells. The 21th Joint Annual Conference of Biomedical Sciences (JCSB). Taipei, Taiwan, 2006. (Oral presentation)
 31. **Wan-Chi Tsai**, Sen-Tien Tsai, Li-Wha Wu*. The tumor suppressor role of S100A2 in human epidermal carcinoma cells. The 96th American Association for Cancer

Research (AACR). Anaheim, CA, U.S.A., 2005. (Poster)

32. **Wan-Chi Tsai**, Sen-Tien Tsai, Li-Wha Wu*. Characterizing the molecular function of S100A2 in oral carcinogenesis. The 19th Joint Annual Conference of Biomedical Sciences (JCSB). Taipei, Taiwan, 2004. (Poster)
33. **Wan-Chi Tsai**, Sen-Tien Tsai, Li-Wha Wu*. Profiling expression of genes in betel-quid chewing related oral cancers. The 4th Asian-Pacific Organization for Cell Biology Congress (APOCB). Taipei, Taiwan, 2002. (Poster)